

Tian Cheng

List of Publications by Year in descending order

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14
papers

535
citations

858243

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all docs

14
docs citations

14
times ranked

642
citing authors

#	ARTICLE	IF	CITATIONS
1	A multisample 7 T dynamic nuclear polarization polarizer for preclinical hyperpolarized MR. NMR in Biomedicine, 2020, 33, e4264.	1.6	24
2	Photogenerated Radical in Phenylglyoxylic Acid for in Vivo Hyperpolarized ¹³ C MR with Photosensitive Metabolic Substrates. Journal of the American Chemical Society, 2018, 140, 14455-14463.	6.6	21
3	Hyperpolarized ¹³ C Magnetic Resonance Spectroscopy Reveals the Rate-Limiting Role of the Blood-Brain Barrier in the Cerebral Uptake and Metabolism of Lactate <i>in Vivo</i> . ACS Chemical Neuroscience, 2018, 9, 2554-2562.	1.7	31
4	Thermal annihilation of photo-induced radicals following dynamic nuclear polarization to produce transportable frozen hyperpolarized ¹³ C-substrates. Nature Communications, 2017, 8, 15757.	5.8	78
5	Producing Radical-Free Hyperpolarized Perfusion Agents for In Vivo Magnetic Resonance Using Spin-Labeled Thermoresponsive Hydrogel. Macromolecular Rapid Communications, 2016, 37, 1074-1078.	2.0	17
6	Photoinduced Nonpersistent Radicals as Polarizing Agents for X-Nuclei Dissolution Dynamic Nuclear Polarization. Journal of Physical Chemistry C, 2015, 119, 22632-22639.	1.5	35
7	Direct noninvasive estimation of myocardial tricarboxylic acid cycle flux in vivo using hyperpolarized ¹³ C magnetic resonance. Journal of Molecular and Cellular Cardiology, 2015, 87, 129-137.	0.9	30
8	Ultra-high field birdcage coils: A comparison study at 14.1T. , 2014, 2014, 2360-3.		5
9	In vivo enzymatic activity of acetylCoA synthetase in skeletal muscle revealed by ¹³ C turnover from hyperpolarized [1- ¹³ C]acetate to [1- ¹³ C]acetylcarnitine. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4171-4178.	1.1	61
10	Automated transfer and injection of hyperpolarized molecules with polarization measurement prior to <i>in vivo</i> NMR. NMR in Biomedicine, 2013, 26, 1582-1588.	1.6	62
11	Over 35% liquid-state ¹³ C polarization obtained via dissolution dynamic nuclear polarization at 7 T and 1 K using ubiquitous nitroxyl radicals. Physical Chemistry Chemical Physics, 2013, 15, 20819.	1.3	53
12	Hyperpolarization without persistent radicals for in vivo real-time metabolic imaging. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18064-18069.	3.3	90
13	Localized in vivo hyperpolarization transfer sequences. Magnetic Resonance in Medicine, 2012, 68, 349-352.	1.9	27
14	Labile photo-induced free radical in alpha-ketoglutaric acid: a universal endogenous polarizing agent for in vivo hyperpolarized ¹³ C magnetic resonance. Angewandte Chemie, 0, , .	1.6	1